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A sorption unit for air-conditioning and heat technology apparatus with sheets for thermal conduction, past which a working medium is guided, said sheets being in contact with a sorption medium, wherein said sorption medium forms string-shaped profiled bodies (4) which are designed such that by them surface contact with said sheets (3, 3') can be created and that channels (6) for passage of the working medium are formed by means of said string shaped profiled bodies (4).

WHAT IS CLAIMED:

2. The sorption unit as defined in claim 1, wherein said working medium is water and said sorption medium is a mineral, zeolite in particular.

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3. The sorption unit as defined in claim 1, wherein said working medium is water and said sorption medium is salt.

4. The sorption unit as defined in claim 1, wherein said working medium is ammonia and said sorption medium is carbon.

The sorption unit as defined in one of the preceding claims, wherein said channels for passage of the working medium are formed in said profiled bodies and extend in longitudinal direction of said profiled bodies.

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6. The sorption unit as defined in claim 5, wherein said channels for passage of the working medium are arranged with axial symmetry with respect to the longitudinal direction of the profiled bodies.

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7. The sorption unit as defined in claim 6, wherein said channels for passage of the working medium have a circular diameter.

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8. The sorption unit as defined in claim 6, wherein said channels for passage of the working medium have a square diameter.

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9. The sorption unit as defined in claim 6, wherein said channels for passage of the working medium have a square diameter with rounded corners.

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in each profiled body respectively one channel for passage of the working medium is arranged in the center of the cross-section of the body.

The sorption unit as defined in one of claims 5 to 9, wherein said profiled body has a square cross-section.

12. The sorption unit as defined in claim 5, wherein said profiled body includes two, three or several neigboring sections, each section representing a profiled body as defined in claim 11.

13. The sorption unit as defined in claim 1, wherein said channels (6) for passage of the working medium are formed between neighboring profiled bodies (4).

filed bodies (4) at least to a great extent have the shape of a double T.

15. The sorption unit as defined in claim 13, wherein said profiled bodies (4) at least to a great extent have the shape of an X with closed top and bottom sides.

16. The sorption unit as defined in one of the preceding claims, wherein said sheets (3, 3') are built as double sheet elements, wherein the space between said double sheets is filled with said string-shaped profiled bodies (4).

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17. The sorption unit as defined in one of the preceding claims, wherein said string-shaped profiled bodies (4) have different lengths and arranged in parallel with one another.

18. The sorption unit as defined in one of the preceding claims, wherein a plurality of double sheet elements form a package arranged in pile and/or one beside the other.

19. The sorption unit as defined in one of the preceding claims, wherein the ends of said string-shaped profiled bodies (4) are formed such that openings through which working medium can flow as well are formed between adjacent ends of said profiled bodies (4).

20. A buffer means for arrangement between a sorption unit and a condenser/evaporator unit of an air-conditioning technology apparatus, through which a working medium, vapor in particular, can be guided, char-

acterized by a labyrinth-like separation means (12), for water in particular.

21. The buffer means as defined in claim 20, characterized by a construction out of a plurality of sheets arranged in parallel with one another, each of which comprises imprints (11, 14) on both sides, said imprints serving as spacers to the respectively neighboring sheet and/or as collecting recesses for liquid droplets.

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wherein the mutual distance between said imprints (11, 14) is constant.

1	27. The condenser/evaporator unit as defined in claim 24,
2	wherein the mutual distance between said imprints (11, 15) is variable.
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4	28. The condenser/evaporator unit for air-conditioning and heat
5	technology apparatus, wherein a liquid separation means comprising a hol-
6 /7	low body formed by at least two semicups (15, 16) mutually connected on
7 7 7 8	the rims, in which an inlay (17) made from severely hygroscopic material is
1 8	received.
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10	29. The condenser/evaporator unit as defined in claim 28,
	wherein said inlay (17) consists of an absorbent glass fiber material or felt
11 112	material and has an essentially areal extension.
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14	30. The condenser/evaporator unit as defined in claim 28 or 29,
15	wherein said inlay (17) is held by a support structure (18).
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17	31. The condenser/evaporator unit as defined in one of the pre-
18	ceding claims 28 to 30, wherein said support structure (18) comprises a
19	least one sieve sheet.
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21	32. The condenser/evaporator unit as defined in one of the pre
22	ceding claims 28 to 31, wherein said inlay (17) is held between two sieve
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sheets (18).

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scopic properties.

support structures (18, 20) are surface treated for improving the hygro-

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 38. An apparatus for air-conditioning technology, in particular refrigerating apparatus or heat pump, characterized by a sorption unit (2) as defined in one of claims 1 to 19, a condenser/evaporator unit (7) as defined in one of claims 24 to 37 and a buffer means (8) as defined in one of claims 20 to 23.

39. The apparatus for air-conditioning technology as defined in claim 38, wherein in said sorption unit (2) and/or said buffer means (8) and/or said condenser/evaporator unit (7) stampings (10) which define cross channels in case of apparatus components (2, 7, 8) put one on top of the other, by which channels an air flow or the like (13) can be created are provided for in the sheet metal walls.

- 40. The apparatus for air-conditioning technology as defined in claim 39, wherein said stampings (10) each extend at alternating sides across a part of the width of said sorption unit (2) and/or said buffer means (8) and/or said condenser/evaporator unit (7) and are arranged on both surfaces of said apparatus components.
- 41. The apparatus for air-conditioning technology as defined in one of claims 38 cont.', wherein in the interior of the apparatus during operating a pressure is prevailing that, is lower than air pressure.

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- 42. The apparatus for air-conditioning technology as defined in one of claims 38 cont.', wherein said sheet metal walls (3, 3') on the inside of said buffer means (8) and/or said condenser/evaporator unit (7) are roughened mechanically and/or chemically.
- 43. The apparatus for air-conditioning technology as defined in one of claims 38 cont.', wherein said apparatus is formed out of several packages connected subsequently, of sorption unit (2), buffer means (8) and condenser/evaporator unit (7), through which an air stream is forcibly passed such that the waste heat absorbed by the cool air stream, of the one sorption unit is used for regeneration of the following sorption unit.
- 44. The apparatus for air-conditioning technology as defined claim 43, wherein a heating means is provided for serving for increase of air temperature of the air stream serving for regeneration.